



T3/Oat tutorials

Tutorial 6: Uploading genotype experiment descriptions and data

<https://triticeaetoolbox.org/oat/>

T3 genotype trial reports

- The experiment name is the unique identifier for a T3 genotype trial
- The experiment description is loaded first
- A line translation file must then be loaded, which links existing T3 lines to the genotype experiment
- Genotype data can then be uploaded in one of four formats
- Supplemental data files can also be attached to the genotype experiment

Genotyping experiment CORE_2014_GBS

Description

Experiment Short Name	CORE_GBS
Platform	HiSeq
Data Program	AAFC Ottawa: genotype data (OTW-GD)
Breeding Program	Unknown (UNK)
OPA Name	n/a
Processing Date	05/03/15
Software	TASSEL/UNEAK
Software version	3
Comments	GBS data called by UNEAK on 635 CORE diversity lines, filtered at >= 95% completeness, >= 1% MAF, >= 5% heterozygous.

Download

2635 markers were assayed for 635 lines.

[Select lines](#)

[Select experiment](#) (lines and markers)

0 markers are missing at least 10% of measurements.

1796 markers have a minor allele frequency (MAF) larger than 5%.

1796 markers remaining

Maximum Missing Data: % Minimum MAF: % [Refresh](#)

[Download allele data](#)

[Download marker data](#)

Additional files available

[Samples \(germplasm lines\)](#)

[Manifest \(markers used\)](#)

[Cluster File](#)

[Raw data](#)

Tutorial 6: Outline

1. Downloading the data submission templates
2. The experiment description template
 1. Completing the experiment description template
 2. Test loading the experiment description template
3. Completing the line translation template
4. Completing the genotype data template
5. Test loading genotype results
6. Submitting the completed templates for upload to T3/Oat

Section 1: Downloading the data submission templates

Choose the About T3 menu> Data Submission

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T3/Oat

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Quick Links

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Current selections:

[Lines: 0](#)

[Markers: All](#)

[Traits: 0](#)

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Quick search...

What's New

March 2016

Genotype Data

Home: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotypic and genetic data.

- Gabe Gusmini (PepsiCo)
- Joe Lutz (General Mills)
- Bruce Roskens (Grain Millers)
- Nicholas Tinker (AAFC)
- Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

For more information see the [Oat Global](#) website.

T3/Oat is built using the database schema and software developed for [The Triticeae Toolbox \(T3\)](#). T3 is the web portal for wheat and barley data generated by the [Triticeae Coordinated Agricultural Project \(T-CAP\)](#), funded by the National Institute for Food and

Section 1: Downloading the data submission templates

Genotyping	<u>Experiment description</u>	30Sep13	Platform, software, manifest file, experiment details...
	<u>Line translation</u>	04Nov11	Line Name and Trial Code
	<u>Illumina data</u>	03Jan13	alleles for lines and markers (coded as A or B)
	<u>GBS data</u>	11Apr14	alleles for lines and markers (coded as ACTG, N = missing, H = heterozygous)
	<u>GBS data, over 100K markers</u>	07Nov14	instructions for loading large GBS data sets using the command line
	<u>DArT data</u>	17Jul13	alleles for lines and markers (coded as 1 = present, 0 = absent)
	<u>Experiment results (1D)</u>	16Sep11	1D table of alleles for lines and markers

The “Genotyping” section of the “Data Submission” page contains the three templates that you need to load genotype data:

1. The “**Experiment description**” template is used to submit trial details. The template can be used to create a new trial record or to update existing genotype trial information in T3/Oat.
2. The “**Line translation**” template links the T3 lines that were genotyped in the trial to the genotype trial name.
3. The genotype data is loaded using either the “**Illumina data**”, “**GBS data**” or “**DArT data**” template, or as a 1D table of alleles.

Section 1: Downloading the data submission templates

- Each of the “Genotyping” template links will take you to a webpage displaying the template in .txt format
- Right click the link and “Save Link As...” to store the text file to your computer
- This tutorial will use Excel to display the text files

```

Breeding Program      CAPdata Program Year   Short Name      Trial Code      Traits
Platform              Processing Date Manifest File   Cluster File   OPA Name      Analysis
Software              Software Version Sample Sheet   Comments
AB      NDG           2010      AB_BOPAl      2009BOPAl_AB_Plate5      SNP calls, r, theta, x,
y,xraw, yraw          GoldenGate      04/28/2010      GS0007511-OPA.opa
BOPAlPooledSamples2009.EGT      BOPAl      Illumina Genome Studio      2010.3
Sample_Sheet_2009plate5AB.csv
AB      NDG           2010      AB_BOPAl2      2009BOPAl2_AB_Plate5      SNP calls, r, theta, x,
y,xraw, yraw          GoldenGate      04/28/2010      GS0010598-OPA.opa
BOPAl2PooledSamples2009.EGT      BOPAl2      Illumina Genome Studio      2010.3
2009CAPplate5ABSampleSheetBOPAl2rev.csv
MN      NDG           2010      MN_BOPAl      2009BOPAl_MN_Plate3      SNP calls, r, theta, x,
y,xraw, yraw          GoldenGate      4/16/2010      GS0007511-OPA.opa
BOPAlPooledSamples2009.EGT      BOPAl      Illumina Genome Studio      2010.3
Sample_Sheet_2009plate3MN.csv
----- cut -----
ADDITION
INFORMATION

These are tab-delimited files of the
form:

Breeding_Program      VT (Two letter
code)
CAPdata_Program NDG (Should be the same as long as North Dakota genotyping is doing
this)
Year
2008
Short_Name      VT_Plate1 (Plate number stays the same year to
year)
Trial_code      2008BOPAl_VT_Plate1 (This is the basic code, CAPYEAR, BOPAl
#_CAPCODE_Plate#)

Traits SNP calls, r, theta, x, y,xraw,
yraw
Platform      GoldenGate
Processing_date
8/9/2008

manifest_file      GS0007511-OPA.opa (need to set for each
BOPAl)
cluster_file      BOPAlPooledSamples2009.EGT (need to set for each
BOPAl)
OPA name      BOPAl (need to set for each
BOPAl)
Analysis_Software      Illumina Genome
Studio
Software_Version
2010.3
Sample_sheet      Sample_Sheet_2008plate1-10BOPAl.csv (need to set for each Sample
Sheet)
  
```


Section 2.1: Completing the experiment description template

The notes section contains nearly all of the information needed to fill out the experiment description template, apart from:

- Breeding and data program codes

This information can be found under the “About T3” menu.

[illegible]

Section 2.1: Completing the experiment description template

To find the breeding and data program codes

- Choose the About T3 menu> Contributing Data Programs

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T3/Oat

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Quick Links

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Current selections:

[Lines: 0](#)

[Markers: All](#)

[Traits: 0](#)

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What's New

February 2016

[Genetic Maps](#)

Home: T3/Oat

Welcome to T3/Oat!

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Global Oat Genetics Database, a project initiated in January 2014 by

Section 2.1: Completing the experiment description template

- Both the 3-letter breeding program code and the 5-letter data program code of the genotyping lab can be found on this page
- Contact the curator if you do not find an appropriate code

Contributing Programs

Breeding programs contribute lines.

Breeding Program	Code	Collaborator	Description	Institution
<u>AAES, Auburn University</u>	AUB	Kathryn Glass	Alabama Agricultural Experiment Station (AAES), Auburn University, AL-USA.	Auburn University
<u>AAFC Agassiz</u>	ABC		Agriculture and Agri-Food Canada (AAFC) Pacific Agri-Food Research Centre (PARC) in Agassiz, BC-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Brandon</u>	MTB	Jennifer W. Mitchell-Fetch	Agriculture and Agri-Food Canada (AAFC) Brandon Research Centre, MB-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Lacombe</u>	LAC	Jennifer W. Mitchell-Fetch	Agriculture and Agri-Food Canada (AAFC) Lacombe Research Centre, AB-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Ottawa</u>	OTW	Weikai Yan	Agriculture and Agri-Food Canada (AAFC) Eastern Cereal and Oilseed Research Centre (ECORC) in Ottawa, ON-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Sainte-Eve</u>	STE		Agriculture and Agri-Food Canada (AAFC) Soils and Crops Research and Development Centre (SCRDC) in Quebec	Agriculture and Agri-Food

Section 2.2: Test loading the experiment description template

- Navigate to the Oat Sandbox at <https://t3sandbox.org/t3/sandbox/oat/>
- The curation menu will appear once you register and login
- Choose the Curate menu> Genotype Experiments

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T3/Oat Sandbox

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Quick Links

Current selections:

[Lines: 0](#)

[Markers: All](#)

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What's New

February 2016

Genetic Maps

Home: T3/Oat

Welcome to

T3/Oat is the repository for

• Gabe Gusmini

• Joe Lutz (Genetics)

• Bruce Roskens

• Nicholas Tinker

• Kay Simmons, et al.

For more information

T3/Oat is built on the

generated by the

Department of Agronomy

[Lines](#)

[Pedigrees](#)

[Phenotype Trials](#)

[Phenotype Results](#)

[CSR Data](#)

[Delete Trials and Experiments](#)

[Traits and Genetic Characters](#)

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[Genotype Results](#)

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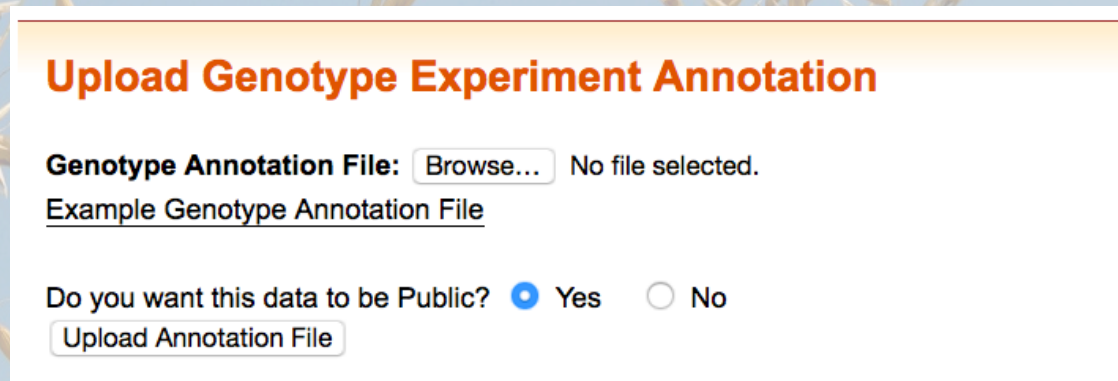
the data for the Global Oat Genetics Database, a project initiated in January 2014 by

Jannink, and Gerard Lazo (USDA-ARS)

was developed for [The Triticeae Toolbox \(T3\)](#). T3 is the web portal for wheat and barley data
Project (T-CAP), funded by the National Institute for Food and Agriculture ([NIFA](#)) of the US

Section 2.2: Test loading the experiment description template

The sandbox allows you to test load your template. The Oat Sandbox reverts to an exact copy of T3/Oat overnight.



Upload Genotype Experiment Annotation

Genotype Annotation File: No file selected.

[Example Genotype Annotation File](#)

Do you want this data to be Public? ☒ Yes ☐ No

It is possible to load “private data” to the main T3/Oat site. Private data is only visible to T3/Oat users that are designated as collaborators by the site administrators. Data may remain private for a limited time only. Please contact the curator if you are interested in this option.

Section 2.2: Test loading the experiment description template

The validation window shows how T3 has read the upload document

- Please take the time to validate your data

Attach any available supporting documents

- Remember to attach a manifest file, cluster file or sample sheet if you referred to them in the experiment description
- Additional supporting files can be loaded at your discretion

Enter/Update Annotation Information: Validation

We are reading the following data from the uploaded Annotation File.

Breeding Program	CAPdata Program	Year	Short Name	Trial Code	Traits	Platform	Processing Date	Manifest File	Cluster File	OPA Name
UNK	OTW-GD	2014	CORE_GBS	CORE_2014_GBS	GBS SNP calls (A/C/G/T)	HiSeq	5/3/15	n/a	n/a	n/a
UNK	FND-GD	2010	CORE_Infinium	CORE_2010_Infinium	SNP calls	Infinium	7/11/14	n/a	CORE_oat6Kproject.bsc	Oat6K

Upload supporting files

1	<input data-bbox="821 1068 909 1089" type="button" value="Browse..."/>	No file selected.	n/a
2	<input data-bbox="821 1092 909 1113" type="button" value="Browse..."/>	No file selected.	n/a
3	<input data-bbox="821 1116 909 1138" type="button" value="Browse..."/>	No file selected.	n/a
4	<input data-bbox="821 1140 909 1162" type="button" value="Browse..."/>	No file selected.	n/a
5	<input data-bbox="821 1165 909 1186" type="button" value="Browse..."/>	No file selected.	CORE_oat6Kproject.bsc
6	<input data-bbox="821 1189 909 1210" type="button" value="Browse..."/>	No file selected.	n/a

Don't forget to "Submit" the upload if the information is correct.

Section 2.2: Test loading the experiment description template

no file upload for entry 1
no file upload for entry 2
no file upload for entry 3
no file upload for entry 4
no file upload for entry 5
no file upload for entry 6
The Manifest file is missing, n/a
The Cluster file is missing, n/a
The Sample Sheet file has is missing, n/a

Error: Breeding program 'XYZ' is not in the database.

[Return](#)

no file upload for entry 1
no file upload for entry 2
no file upload for entry 3
no file upload for entry 4
no file upload for entry 5
no file upload for entry 6
The Manifest file is missing, n/a
The Cluster file is missing, n/a
The Sample Sheet file has is missing, n/a
update experiment CORE_2014_GBS
The Manifest file is missing, n/a
The Cluster file is missing, CORE_oat6Kproject.bsc
The Sample Sheet file has is missing, n/a
update experiment CORE_2010_Infinium
The Data is inserted/updated successfully

[Go Back To Main Page](#)

- It is OK to have a “missing” manifest file, cluster file or sample sheet if those files are unavailable to you
- Any illegal entries will be highlighted at this stage
 - e.g. invalid breeding program code
- Fix illegal entries in your upload document and re-submit it

Once your experiment description has loaded successfully you can upload:

- The line translation file
- The genotype data file

These files are uploaded at the same time

Section 4: Completing the line translation template

	A	B
1	Line Name	Trial Code
2	AAC_BULLET	CORE_2014_GBS
3	AAC_ROSKENS	CORE_2014_GBS
4	AARRE	CORE_2014_GBS
5	AC_MARIE	CORE_2014_GBS
6	AC_MORGAN	CORE_2014_GBS
7	AC_RIGODON	CORE_2014_GBS
8	AJAX CORE	CORE_2014_GBS
9	AJAY	CORE_2014_GBS
10	AKIYUTAKA	CORE_2014_GBS
11	ALLEN	CORE_2014_GBS
12	ANDREW	CORE_2014_GBS
13	ARDENTE	CORE_2014_GBS
14	ASENCAO	CORE_2014_GBS
15	ASSINIBOIA_S42	CORE_2014_GBS
16	AURORA	CORE_2014_GBS
17	AVE117	CORE_2014_GBS
18	AVENY	CORE_2014_GBS
19	BALADO	CORE_2014_GBS
20	BARRA	CORE_2014_GBS
21	BELINDA	CORE_2014_GBS
22	BETAGENE	CORE_2014_GBS
23	BIA	CORE_2014_GBS
24	BIRI	CORE_2014_GBS
25	BLAZE	CORE_2014_GBS

The line translation file links existing T3 line records to the genotype trial.

The first column should contain the names of genotyped lines as they appear in T3/Oat.

The second column should contain the trial code that was created in the experiment description upload document, repeated for every line.

Please refer to T3/Oat tutorial 1 for instructions on how to:

- Correctly format line names for T3/Oat
- Search for existing line records by line name, using the “Select Lines by Properties” tool
- Add new line records to T3/Oat

Section 5: Completing the genotype data template

Illumina data template

	A	B	C	D	E
1	SNP	AAC_BULLET	AAC_ROSKEN	AC_MARIE	AC_MORGAN
2	BA_grs_c103	BB	BB	AA	AA
3	GMI_DS_A3_AA	AA	AA	AA	AA
4	GMI_DS_A3_BB	BB	BB	BB	BB
5	GMI_DS_A3_AA	AA	BB	BB	BB
6	GMI_DS_A3_AA	AA	AA	AA	AA
7	GMI_DS_A3_BB	BB	BB	BB	BB
8	GMI_DS_A3_BB	AA	BB	BB	BB
9	GMI_DS_A3_BB	BB	BB	BB	BB
10	GMI_DS_A3_AA	AA	AA	AA	AA

GBS data template

	A	B	C	D	E
1	SNP	AAC_BULLET	AAC_ROSKEN	AC_MARIE	AC_MORGAN
2	avgbs_10001	T	T	T	T
3	avgbs_10005	N	T	T	T
4	avgbs_10009	T	T	T	T
5	avgbs_10026	T	T	T	T
6	avgbs_10045	T	T	T	T
7	avgbs_10059	G	N	G	G
8	avgbs_10071	C	C	C	C
9	avgbs_10084	C	A	C	C
10	avgbs_10086	G	G	G	G

DArT data template

	A	B	C
1	SNP	DAVEM	CAYUGAX
2	bPb-2121	1	0
3	bPb-7983	0	1

Genotype data can be loaded as:

1. Illumina data
 - Alleles coded as A or B
2. GBS data
 - Alleles coded ACTG
 - N= missing
 - H= heterozygous
3. DArT data
 - Alleles coded as 1 (present) or 0 (absent)
4. 1D table of alleles for lines and markers (not shown)

In cases 1-3, the first column should contain the T3 marker names and the first row should contain the T3 line names.

Section 5: Completing the genotype data template

Illumina data template

	A	B	C	D	E
1	SNP	AAC_BULLET	AAC_ROSKEN	AC_MARIE	AC_MORGAN
2	BA_grs_c103	BB	BB	AA	AA
3	GMI_DS_A3_AA	AA	AA	AA	AA
4	GMI_DS_A3_BB	BB	BB	BB	BB
5	GMI_DS_A3_AA	AA	BB	BB	BB
6	GMI_DS_A3_AA	AA	AA	AA	AA
7	GMI_DS_A3_BB	BB	BB	BB	BB
8	GMI_DS_A3_BB	AA	BB	BB	BB
9	GMI_DS_A3_BB	BB	BB	BB	BB
10	GMI_DS_A3_AA	AA	AA	AA	AA

GBS data template

	A	B	C	D	E
1	SNP	AAC_BULLET	AAC_ROSKEN	AC_MARIE	AC_MORGAN
2	avgbs_10001	T	T	T	T
3	avgbs_10005	T	N	T	T
4	avgbs_10009	T	T	T	T
5	avgbs_10026	T	T	T	T
6	avgbs_10045	T	T	T	T
7	avgbs_10059	G	G	N	G
8	avgbs_10071	C	C	C	C
9	avgbs_10084	A	C	A	C
10	avgbs_10086	G	G	G	G

DARt data template

	A	B	C
1	SNP	DAVEM	CAYUGAX
2	bPb-2121	1	0
3	bPb-7983	0	1

- The line names used in the genotype data submission document must match the line names in the related line translation document
- All lines and markers in the submission documents must already be present in T3/Oat

Please refer to T3/Oat tutorial 4 for instructions on how to:

- Search for existing marker records using the “Select Markers” tool
- Add new marker records to T3/Oat

Section 6: Test loading genotype results

- Navigate to the Oat Sandbox at <https://t3sandbox.org/t3/sandbox/oat/>
- The curation menu will appear once you register and login
- Choose the Curate menu> Genotype Results

The screenshot displays the T3/Oat Sandbox website. At the top right, there is a 'Contact Us' link. The main navigation bar includes 'Home', 'Select', 'Analyze', 'Download', 'Curate', and 'About T3'. The 'Curate' menu is open, showing a list of options: 'Lines', 'Pedigrees', 'Phenotype Trials', 'Phenotype Results', 'CSR Data', 'Delete Trials and Experiments', 'Traits and Genetic Characters', 'Genotype Experiments', 'Genotype Results' (highlighted), 'Maps', 'Markers', and 'Contributing Data Programs'. On the left, a 'Quick Links' section lists 'Current selections' with links for 'Lines: 0', 'Markers: All', 'Traits: 0', 'Phenotype Trials', and 'Genotype Experiments'. Below this is a 'What's New' section dated February 2016. The main content area on the right includes a 'Welcome to' message and a paragraph about the Global Oat Genetics Database project initiated in January 2014 by Jannink and Gerard Lazo (USDA-ARS).

T3/Oat Sandbox

Contact Us

Home Select ▾ Analyze ▾ Download ▾ Curate ▾ About T3 ▾

Quick Links

Current selections:

Lines: 0

Markers: All

Traits: 0

Phenotype Trials

Genotype Experiments

Quick search...

What's New

February 2016

Home: T3/Oat

Welcome to

T3/Oat is the repository for the data for the Global Oat Genetics Database, a project initiated in January 2014 by Jannink, and Gerard Lazo (USDA-ARS)

T3/Oat is built and maintained by the National Institute for Food and Agriculture (NIFA) of the US Department of Agriculture (USDA).

Curate ▾

- Lines
- Pedigrees
- Phenotype Trials
- Phenotype Results
- CSR Data
- Delete Trials and Experiments
- Traits and Genetic Characters
- Genotype Experiments
- Genotype Results**
- Maps
- Markers
- Contributing Data Programs

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Section 6: Test loading genotype results

Add Genotype Experiment Information

Line Translation File: No file selected.

[Example Line Translation File](#)

Genotype Data File: No file selected. Size limit 100M

Data File Format:

- ☐ 1D Example [Genotype Data File](#)
- ☒ 2D Example [Illumina_Genotype_template.txt](#)
- ☐ 2D Example [GBS_Genotype_template.txt](#) (ACTG, N = missing, H = heterozygous)
- ☐ 2D Example [DArT_Genotype_template.txt](#) (1 = Present, 0 = Absent, "-" = missing)

Check if lines and markers exist in database

Note:

1. Both files (line translation and genotype data) are required. Line names should be identical between both files.
2. Due to size of the Genotype Data File, it can be compressed with a "zip" application before submitting it.
3. Genotype files with over 100K makers should be imported via the command line as described in [GBS import instruction](#).
4. This upload process may take several hours to complete depending on size of the data file. Please leave your email address for us to contact you with the results.

Your Email Address:

Attach your completed line translation file...

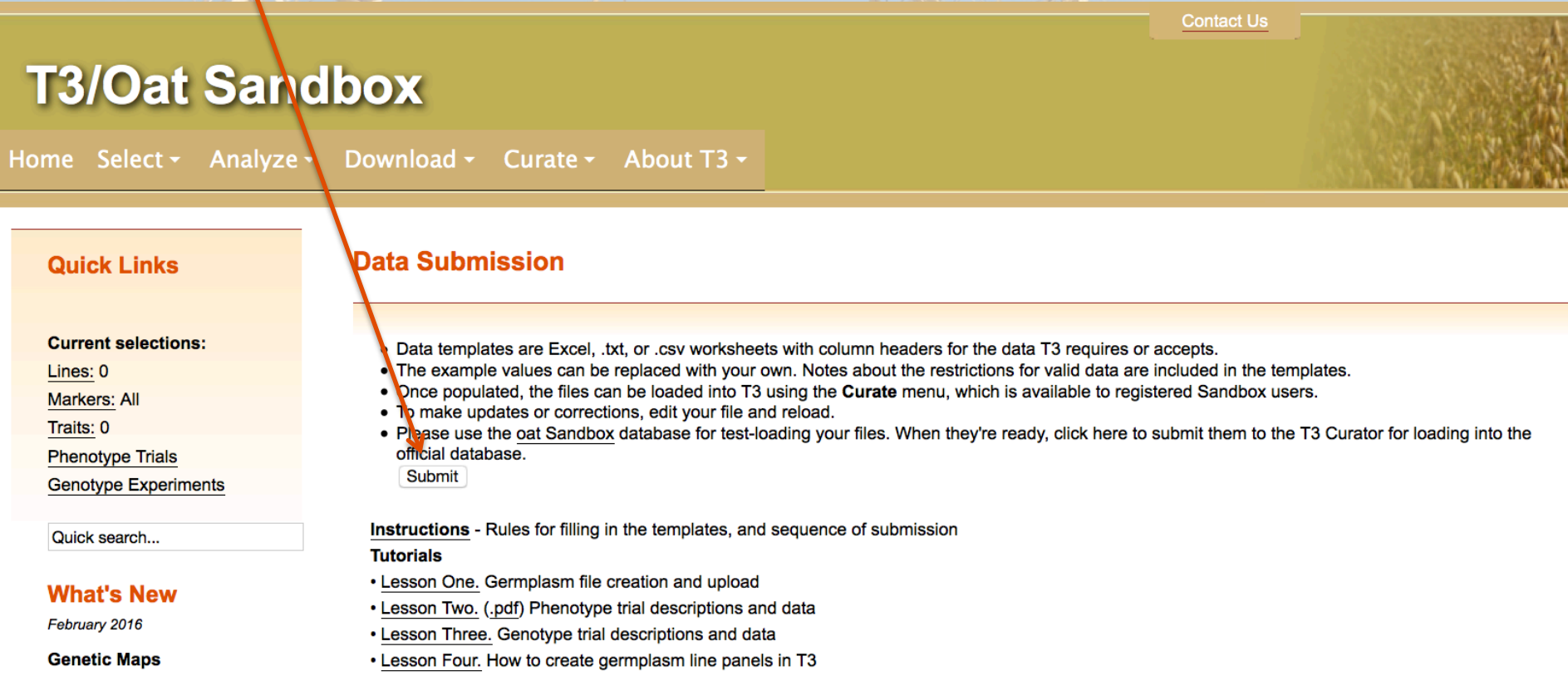
Attach your results file and select which of the genotype data templates you used...

You'll receive an email when your upload was successful (or an email telling you why it was not)

Section 7: Submitting the completed templates to T3/Oat

Finally, submit your documents to the curator for upload to T3/Oat

- Navigate to the Data Submission page
- Click the “Submit” button



T3/Oat Sandbox

[Contact Us](#)

Home Select ▾ Analyze ▾ Download ▾ Curate ▾ About T3 ▾

Quick Links

Current selections:
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[Markers: All](#)
[Traits: 0](#)
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What's New

February 2016

Genetic Maps

Data Submission

- Data templates are Excel, .txt, or .csv worksheets with column headers for the data T3 requires or accepts.
- The example values can be replaced with your own. Notes about the restrictions for valid data are included in the templates.
- Once populated, the files can be loaded into T3 using the **Curate** menu, which is available to registered Sandbox users.
- To make updates or corrections, edit your file and reload.
- Please use the [oat Sandbox](#) database for test-loading your files. When they're ready, click here to submit them to the T3 Curator for loading into the official database.

Instructions

Rules for filling in the templates, and sequence of submission

Tutorials

- [Lesson One](#). Germplasm file creation and upload
- [Lesson Two](#). (.pdf) Phenotype trial descriptions and data
- [Lesson Three](#). Genotype trial descriptions and data
- [Lesson Four](#). How to create germplasm line panels in T3

Section 7: Submitting the completed templates to T3/Oat

Data Submission

Please submit a data file for the curator to load into the production database. File names should not contain spaces.

Data Type

- ☐ Germplasm lines
- **Phenotyping**
 - ☐ Experiment annotation
 - ☐ Results
- **Genotyping**
 - ☐ Experiment annotation
 - ☐ Results

Comments

This file loads successfully in the Sandbox. ☐ Yes ☒ No
☐ This file contains phenotype data private to project members only.

File: No file selected.

You can submit files that do not successfully upload to the Oat Sandbox to receive help from the curator

Contact Us

Please contact us if you need help using T3/Oat

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Current selections:

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What's New

February 2016

Genetic Maps

An expanded oat consensus map (50,668 markers) is now [available](#) in addition to the Framework Oat Consensus Map (7,202 markers) and the 12 component maps used to develop the consensus map.

Home: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by

- Gabe Gusmini (PepsiCo)
- Joe Lutz (General Mills)
- Bruce Roskens (Grain Millers)
- Nicholas Tinker (AAFC)
- Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

For more information see the [Oat Global](#) website.

T3/Oat is built using the database schema and software developed for [The Triticeae Toolbox](#) (T3). T3 is the web portal for wheat and barley data generated by the [Triticeae Coordinated Agricultural Project](#) (T-CAP), funded by the National Institute for Food and Agriculture ([NIFA](#)) of the US Department of Agriculture ([USDA](#)). [More...](#)

Participants: The templates and instructions for data submission are [here](#). If your data are not totally public, please check the [Data Usage Policy](#).

[Data submission](#)